Panasonic
ideas for life

Windows®. Life without Walls™. Panasonic recommends Windows 7.

THE TOUGHBOOK U1 ULTRA

- Genuine Windows® 7 Professional[1]
- Sunlight-viewable Up to 6000 Nit in Direct Sunlight
- Optional Integrated Camera, GPS, Barcode and Fingerprint Readers
- Wi-Fi, Bluetooth® and Optional 3G Gobi™ WWAN
- Numeric and QWERTY Keyboard Options
- Twin Hot-swappable Batteries for Continuous Use

IP65

6-FOOT DROP RATING

MIL-STD 810G

The first MIL-STD-810G certified handheld PC[2]

THE NEXT GENERATION OF HANDHELD POWER WITH WINDOWS® 7 PROFESSIONAL.[1]

The Panasonic Toughbook® U1 Ultra is the newest member of the Toughbook U1 family, and is the clear alternative for legacy Windows® Mobile solutions when you need your mobile workers to do more in the field and need an advanced mobile solution that can work anywhere. The U1 Ultra features a brilliant LED screen capable of up to 6000 nit in direct sunlight and can automatically adjust its screen brightness to fit its environment. Genuine Windows® 7[1] support means an easier to use interface and more off-the-shelf commercial applications than any OS on the planet. Plus, the U1 Ultra features a rugged modular design and a host of integrated options like GPS, Gobi™ mobile broadband, a 2MP camera and barcode readers—there are no limits to productivity. The U1 Ultra is ideally suited for multitasking applications such as SAP, CRM, turn-by-turn directions, drawings, schematics, GEO tagging and paperless forms, to name a few. And for more basic applications and usage environments, the Toughbook U1 Essential is the perfect companion with a combination of value and versatility.

1.800.662.3537	panasonic.com/toughbook/u1-ultra
SOLUTIONS	IS OUR MIDDLE NAME

TOUGHBOOK

Panasonic Solutions Company

Panasonic
ideas for life

Windows®. Life without Walls™. Panasonic recommends Windows 7.

DURABILITY

- MIL-STD-810G certified (6' drop, shock, vibration, rain, dust, sand, altitude, freeze/thaw, high/low temperature, temperature shock, humidity, salt, fog)[2]
- MIL-STD-461F certified (requires special model)[2]
- IP65 certified sealed all-weather design[2]
- UL1604 class I, division 2, groups ABCD certified model
- CCX Certified v4
- Magnesium alloy chassis encased with ABS and elastomer
- Removable reinforced flex-connect SSD[3]
- Pivoting hand strap
- Reinforced locking port covers

SOFTWARE

- Genuine Windows® 7 Professional[1]
- Panasonic Utilities, Recovery DVD

CPU

- Intel® Atom™ Processor Z530
  - 1.60GHz
  - 512KB L2 cache
  - 533MHz FSB

STORAGE & MEMORY

- 2GB SDRAM (DDR2)[4,5]
- 64GB removable reinforced flex-connect SSD[3,4]

DISPLAY

- 5.6" widescreen WSVGA touchscreen LED 1024 x 600
- TransflectivePlus sunlight-viewable display
  - 2-6000 nit (depending on lighting conditions and settings)[6]
  - AR, AG and circular polarizer
  - Ambient light sensor
- Intel® SCH (GMA 500 video controller) max. 256MB UMA VRAM[7]
- External video support up to 1280 x 768 at 16 million colors

AUDIO

- Intel® high-definition audio compliant
- Integrated speaker
- Keyboard volume and mute controls

KEYBOARD & INPUT

- Touchscreen
- Integrated stylus holder (x 2)
- Backlit 61-key with Windows® key and keyboard lock
- Optional backlit 29-key numeric keypad with large buttons including navigation, Windows® and keyboard lock buttons
- Zoom (in/out) and scroll (up/down) buttons
- 4 user-defined programmable buttons

EXPANSION SLOTS

- SD card (SDHC)
- Optional magnetic stripe reader (with mini-dock)
- Optional SmartCard reader (with mini-dock)

INTERFACE

Docking connector	Dedicated 19-pin
Headphones/speaker	Mini-jack stereo
Microphone/line in	Mini-jack stereo
USB 2.0 (x 1)	4-pin
Optional Ethernet (RJ-45)	With mini-dock
Optional serial	With mini-dock

WIRELESS

- Optional integrated Gobi™2000 3G mobile broadband
- Intel® Wireless Wi-Fi Link 5100 802.11a/b/g/draft-n
- Bluetooth® v2.1 + EDR (Class 1)
- Security
  - Authentication: LEAP, WPA, 802.1x, EAP-TLS, EAP-FAST, PEAP
  - Encryption: CKIP, TKIP, 128-bit and 64-bit WEP, Hardware AES
- Slide on/off switch

POWER SUPPLY

- Twin hot-swappable Li-Ion battery packs (7.2V, 2900mAh each)
- Battery operation: 9 hours[8]
- Battery charging time: 5.5 hours off, 5.5 hours on[8]
- AC Adapter: AC 100V-240V 50/60Hz

POWER MANAGEMENT

- Suspend/Resume Function, Hibernation, Standby, ACPI BIOS

SECURITY FEATURES

- Password Security: Supervisor, User, Hard Disk Lock
- Kensington cable lock slots (x 2)
- Trusted platform module (TPM) security chip v.1.2
- Computrace® theft protection agent in BIOS[9]
- Optional fingerprint reader
- Optional SmartCard reader (with mini-dock)

INTEGRATED FEATURES

- Package 1: Base model
- Package 2: Camera
- Package 3: Gobi2000, barcode reader
- Package 4: Gobi2000, camera
- Package 5: Gobi2000, camera, GPS
- Package 6: Gobi2000, camera, GPS, dual pass, barcode reader

Camera = 2MP camera with auto focus and dual LED light
Barcode Reader = Choice of 1D laser or 2D imager (1D and 2D capable)
GPS = GPS receiver (DGPS enabled)
Dual Pass = Dual pass-through connectors (for external antenna)

WARRANTY

- 3-year limited warranty, parts and labor

DIMENSIONS & WEIGHT

- 5.9"(L) x 7.2"(W) x 2.2"(H)
- 2.3 lbs. (with strap and both batteries)

*Shown with optional numeric keypad.
Screen image is for demonstration purposes only.

INTEGRATED OPTIONS[10]

- Numeric keypad with large buttons including navigation
- Fingerprint reader

ACCESSORIES[10]

AC Adapter (3-prong)	CF-AA1633AM
Lithium Ion Battery Pack	CF-VZSU53W
4-Bay Battery Charger	CF-VCBU11U
LIND Car Adapter 120W	CF-LNDDC120
LIND Car Adapter 120W Mounting Bracket	CF-LNDBRK120
LIND Car/AC Adapter 90W (with USB port)	CF-LNDACDC90
LIND Car Adapter 90W MIL-STD	CF-LNDMLDC90
LIND Car Adapter 80W	CF-LNDDC80
LIND Shutdown Timer	CF-LNDLPT
InfoCase U1 Holster	TBCU1HSTR-P
InfoCase U1 Harness	TBCU1HRNS-P
InfoCase U1 Harness Clear Cover	TBCU1CLRCVR-P
InfoCase U1 Strap	TBCU1MSTP-P
InfoCase U1/H1 Battery Pouch	TBCU1BPCH-P
External USB Combo Drive	CF-VDRRT3U
Desktop Cradle/Spare 2-Bay Battery Charger	CF-VEBU11BU
Mag Stripe Reader Mini-dock	CF-VCRU11U
Serial/LAN/SmartCard Mini-dock	CF-VEBU12U
Serial/LAN/USB Micro-dock	CF-MPU11UTT
Personal Identification Mini-dock (PIMD)[11]	Project Driven
Havis Vehicle Dock	
– no pass-through	DS-PAN-301
– dual pass-through	DS-PAN-301-2
– no electronics	DS-PAN-302
Touchscreen Replacement Stylus	CF-VNP003U
Tether	CF-VNT002U
5.6" LCD Protector Film	CF-VPF12U

Please consult your reseller or Panasonic representative before purchasing.

[1]A full set of Windows XP drivers are available at panasonic.com/toughbook/support.

[2]Tested by a national independent third party lab following MIL-STD-810G Method 516.6 Procedure IV for transit drop test and IEC 60529 Sections 13.4, 13.6.2, 14.2.5 and 14.3 for IP65.

[3]SSD should only be removed by a technician with the proper equipment.

[4]1GB = 1,000,000,000 bytes.

[5]Total usable memory will be less depending upon actual system configuration.

[6]380 nit without ambient light assistance. Up to 6000 nit in clear sunny conditions under direct sunlight.

[7]Max with standard RAM. The size of the VRAM cannot be set by the user and varies by operating system as well as size of RAM.

[8]Battery performance features such as charge time and life span vary based on the conditions under which the computer and battery are used. Battery operation and recharge times will vary based on many factors, including brightness, applications, features, power management, battery conditioning and other customer preferences. Battery test results from MobileMark 2005.

[9]Requires software and activation to enable theft protection.

[10]Accessories and Integrated Options may vary depending on your configuration.

[11]PIMD includes an OCR (3 track MRZ) + RFID reader (ISO 15693, 14443 Type A/B) + fingerprint reader (FIPS 201).

1.800.662.3537 / panasonic.com/toughbook/U1-Ultra

Financing options now available from Panasonic Finance Solutions; please call number above for more details.

Panasonic is constantly enhancing product specifications and accessories. Specifications subject to change without notice. Trademarks are property of their respective owners. ©2011 Panasonic Corporation of North America. All rights reserved.

TOUGHBOOK®

Panasonic Solutions Company